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APPLICATION NO.	FIL	ING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
10/620,627	0	7/16/2003	Edgar Kaslin	4-31176B	3339
1095	7590	02/23/2006		EXAMINER	
NOVARTIS				LI, QIAN JANICE	
CORPORATE INTELLECTUAL PROPERTY ONE HEALTH PLAZA 104/3				ART UNIT	PAPER NUMBER
EAST HANOVER, NJ 07936-1080			1633		

DATE MAILED: 02/23/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)					
	10/620,627	KASLIN ET AL.					
Office Action Summary	Examiner	Art Unit					
	Q. Janice Li, M.D.	1633					
The MAILING DATE of this communication ap Period for Reply	pears on the cover sheet with the c	orrespondence address					
A SHORTENED STATUTORY PERIOD FOR REPL WHICHEVER IS LONGER, FROM THE MAILING D  - Extensions of time may be available under the provisions of 37 CFR 1. after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory period  - Failure to reply within the set or extended period for reply will, by statut Any reply received by the Office later than three months after the mailine earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNICATION 136(a). In no event, however, may a reply be timwill apply and will expire SIX (6) MONTHS from e, cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).					
Status							
1) Responsive to communication(s) filed on 16 J	lulv 2003.						
	s action is non-final.						
3) Since this application is in condition for allowa		secution as to the merits is					
	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims							
4)⊠ Claim(s) 1-18 is/are pending in the application	☑ Claim(s) <u>1-18</u> is/are pending in the application.						
	4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.							
6) Claim(s) is/are rejected.							
7) Claim(s) is/are objected to.							
8) Claim(s) 1-18 are subject to restriction and/or	election requirement.						
Application Papers							
9) The specification is objected to by the Examine	er.						
10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.							
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).							
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.							
Priority under 35 U.S.C. § 119							
<ul> <li>12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).</li> <li>a) All b) Some * c) None of:</li> <li>1. Certified copies of the priority documents have been received.</li> <li>2. Certified copies of the priority documents have been received in Application No</li> <li>3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).</li> <li>* See the attached detailed Office action for a list of the certified copies not received.</li> </ul>							
Attachment(s)  1) D Notice of References Cited (PTO-892)	4) 🔲 Interview Summary	(PTO-413)					
2) D Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail Da	ate					
<ol> <li>Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)</li> <li>Paper No(s)/Mail Date</li> </ol>	5)  Notice of Informal P 6)  Other:	atent Application (PTO-152)					

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## **DETAILED ACTION**

## Election/Restrictions

- 1. Restriction to one of the following inventions is required under 35 U.S. C. 121:
  - I. Claims 1-8 are drawn a transgenic non-human mammal comprising a polynucleotide encoding a soluble marker protein functionally lined to a regulatory sequence of an *endogenous* E-selectin. Classified in class 800, subclass 13.
  - II. Claims 1-6 are drawn a somatic recombinant non-human mammal comprising a polynucleotide encoding a soluble marker protein functionally lined to a regulatory sequence of an endogenous E-selectin. Classified in class 800, subclass 13.
  - III. Claims 9-12 are drawn a knockout mouse homozygous or heterozygous for a E-selectin allele comprising a polynucleotide encoding a soluble marker transgene. Classified in class 800, subclass 13.
  - IV. Claim 13 is drawn to a DNA sequence as identified by SEQ ID No: 9. Classified in class 536, subclass 23.1.
  - V. Claim 13 is drawn to a DNA sequence as identified by SEQ ID No: 10.Classified in class 536, subclass 23.1.
- VI. Claims 14, 15 are drawn to a method of screening using a transgenic animal of group I or II. Classified in class 800, and subclass 21.

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VII. Claim 16 is drawn to a modulator of E-selectin expression. Classification is to be determined depending on the nature of the modulator.

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- VIII. Claim 17 is drawn to a method of treating a patient using a modulator of group VII. Classified in class 536, subclass 23.1.
- IX. Claim 18 is drawn to a method of monitoring progression of a disease, comprising breeding of a transgeneic animal and a disease model animal.Classified in class 800, and subclass 21.
- 2. The inventions are distinct, each from the other because of the following reasons. Inventions II-IX and I are independent or distinct inventions. Inventions are distinct if it can be shown that they are not disclosed as capable of use together and they have different modes of operation, different functions, or different effects (MPEP § 806.04, MPEP § 808.01). In the instant case, the different inventions are drawn to patentably distinct products and methods. The different products are structurally distinct, belong to different chemical entity, and have different mode of operation. The different methods have different method steps, use different test criteria to measure the effects of testing compounds, have different modes of operation, and require distinct technical considerations.

Inventions VI and I, or VI and II, or IX and I, or VIII and VII could be related as product and process of use. The inventions can be shown to be distinct if either or both of the following can be shown: (1) the process for using the product as claimed can be practiced with another materially different product or (2) the product as claimed can be

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used in a materially different process of using that product (MPEP § 806.05(h)). In the instant case, the product of group I could be used in different methods, such as indicated in group VI or IX; the method of screening may be practiced with a materially different product, such as the mouse of group II or III, or a cell culture.

Group VII encompasses any number of chemicals that is capable of modulating E-selectin expression, which may be structurally distinct of each other; and thus group VII embraces independent and distinct inventions. Upon election of group VII, further identification of a specific chemical is necessary.

The examiner has required restriction between product and process claims.

Where applicant elects claims directed to the product, and a product claim is subsequently found allowable, withdrawn process claims that depend from or otherwise include all the limitations of the allowable product claim will be rejoined in accordance with the provisions of MPEP § 821.04. Process claims that depend from or otherwise include all the limitations of the patentable product will be entered as a matter of right if the amendment is presented prior to final rejection or allowance, whichever is earlier. Amendments submitted after final rejection are governed by 37 CFR 1.116; amendments submitted after allowance are governed by 37 CFR 1.312.

In the event of rejoinder, the requirement for restriction between the product claims and the rejoined process claims will be withdrawn, and the rejoined process claims will be fully examined for patentability in accordance with 37 CFR 1.104. Thus, to be allowable, the rejoined claims must meet all criteria for patentability including the requirements of 35 U.S.C. 101, 102, 103, and 112. Until an elected product claim is

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found allowable, an otherwise proper restriction requirement between product claims and process claims may be maintained. Withdrawn process claims that are not commensurate in scope with an allowed product claim will not be rejoined. See "Guidance on Treatment of Product and Process Claims in light of *In re Ochiai, In re Brouwer* and 35 U.S.C. § 103(b)," 1184 O.G. 86 (March 26, 1996). Additionally, in order to retain the right to rejoinder in accordance with the above policy, Applicant is advised that the process claims should be amended during prosecution either to maintain dependency on the product claims or to otherwise include the limitations of the product claims. Failure to do so may result in a loss of the right to rejoinder. Further, note that the prohibition against double patenting rejections of 35 U.S.C. 121 does not apply where the restriction requirement is withdrawn by the examiner before the patent issues. See MPEP § 804.01.

Further, note that the prohibition against double patenting rejections of 35 U.S.C. 121 does not apply where the restriction requirement is withdrawn by the examiner before the patent issues. See MPEP § 804.01.

The differences of the Inventions I-IX are further underscored by their divergent classification and independent search criteria.

Because these inventions are distinct for the reasons given above and have acquired a separate status in the art because of their recognized divergent subject matter and different search criteria, it would impose an undue burden to the Office if all the groups are examined together, thus, restriction for examination purposes as indicated is proper.

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3. This application contains claims directed to the following patentably distinct species of the claimed invention:

Invention III encompasses multiple species of knockout mice whose genome comprising a genetic construct comprises SEQ ID Nos: 11 or 12. If invention III is elected, further election of a species is necessary (e.g. SEQ ID No: 11 or 12).

Invention VI encompasses using different mammal, transgeneic or somatic recombinant. If invention VI is elected, further election of a species is necessary.

Invention IX encompasses breeding between a transgenic mammal, and a disease model mammal. If invention IX is elected, further election of a species, drawn to a specific disease model, is necessary.

Applicant is required under 35 U.S.C. 121 to elect a single disclosed species for prosecution on the merits to which the claims shall be restricted if no generic claim is finally held to be allowable. Currently, claims 9-12, 14, 15, 18 are generic.

Applicant is advised that a reply to this requirement must include an identification of the species that is elected consonant with this requirement, and a listing of all claims readable thereon, including any claims subsequently added. An argument that a claim is allowable or that all claims are generic is considered nonresponsive unless accompanied by an election.

Upon the allowance of a generic claim, applicant will be entitled to consideration of claims to additional species which are written in dependent form or otherwise include all the limitations of an allowed generic claim as provided by 37 CFR 1.141. If claims

are added after the election, applicant must indicate which are readable upon the elected species. MPEP § 809.02(a).

Should applicant traverse on the ground that the species are not patentably distinct, applicant should submit evidence or identify such evidence now of record showing the species to be obvious variants or clearly admit on the record that this is the case. In either instance, if the examiner finds one of the inventions unpatentable over the prior art, the evidence or admission may be used in a rejection under 35 U.S.C. 103(a) of the other invention.

4. Applicant is advised that the reply to this requirement to be complete must include an election of the invention to be examined even though the requirement be traversed (37 CFR 1.143).

Applicant is advised that where a single claim encompasses more than one invention as defined above, upon election of an invention for examination, said claim will only be examined to the extent that it reads upon the elected invention.

5. Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a petition under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

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6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to **Q. Janice Li** whose telephone number is 571-272-0730. The examiner can normally be reached on 9:30 am - 7 p.m., Monday through Friday, except every other Wednesday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, **Dave T. Nguyen** can be reached on 571-272-0731. The **fax** numbers for the organization where this application or proceeding is assigned are **571-273-8300**.

Any inquiry of formal matters can be directed to the patent analyst, **William Phillips**, whose telephone number is (571) 272-0548.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to (571) 272-0547.

Patent applicants with problems or questions regarding electronic images that can be viewed in the Patent Application Information Retrieval system (PAIR) can now contact the USPTO's Patent Electronic Business Center (Patent EBC) for assistance. Representatives are available to answer your questions daily from 6 am to midnight (EST). The toll free number is (866) 217-9197. When calling please have your application serial or patent number, the type of document you are having an image problem with, the number of pages and the specific nature of the problem. The Patent Electronic Business Center will notify applicants of the resolution of the problem within 5-7 business days. Applicants can also check PAIR to confirm that the problem has been corrected. The USPTO's Patent Electronic Business Center is a complete service center supporting all patent business on the Internet. The USPTO's PAIR system

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provides Internet-based access to patent application status and history information. It also enables applicants to view the scanned images of their own application file folder(s) as well as general patent information available to the public.

For all other customer support, please call the USPTO Call Center (UCC) at **800-786-9199**.

Q. JANICE LI, M.D. PRIMARY EXAMINER

Q. Janice Li, M.D. Primary Examiner Art Unit 1633

QJL February 21, 2006